* Some of the contents in this manual may differ from your phone, depending on the software installed or your service provider.

SAMSUNG ELECTRONICS

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www.samsungmobile.com

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HUTCH

English

Samsung SCH-X609

PlayRoom powered by Brew™

65K color UFB display

40-Polyphonic ringtone

PIM (Calendar, calculator, alarm, to do list memo pad, world time)

Hutch Simple Thai Input

Small & compact design

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Important Safety Precautions

Read these guidelines before using your wireless phone. Failure to comply with them may be dangerous or illegal.

Road Safety at All Times
Do not use a hand-held phone while driving; park the vehicle first.

Switching Off When Refuelling
Do not use the phone at a refuelling point (service station) or near fuels or chemicals.

Switching Off in Aircraft
Wireless phones can cause interference. Using them in aircraft is both illegal and dangerous.

Switching Off in Hospitals
Switch off your phone near medical equipment. Follow any regulations or rules in force.

Interference
All wireless phones may be subject to interference, which could affect their performance.

Special Regulations
Meet any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger (in a hospital for example).

Sensible Use
Use only in the normal position (held to the ear). Avoid unnecessary contact with the antenna when the phone is switched on.

Emergency Call
Ensure the phone is switched on and in service. Key in the emergency number for your present location, then press . If certain feature are in use, deactivate those features before you can make an emergency call. Give all the necessary information as accurately as possible. Do not cut off the call until given permission to do so.

Water Resistance
Your phone is not water-resistance. Keep it dry.

Accessories and Batteries
Use only Samsung-approved accessories and batteries. Use of any unauthorised accessaries could damage your phone and may be dangerous.

Qualified Service
Only qualified service personnel may install or repair your phone.

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

For more detailed safety information, see "Health and Safety Information" on page 110.

Unpacking

Your package contains the following items.

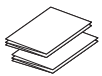
Handset

Travel Adapter

Battery

Hand Strap

Thai & English User's Manuals


Thai & English Quick Reference Cards

Wearable Ear-microphone

In addition, you can obtain the following accessories for your phone from your local Samsung dealer:

- Standard battery
- Travel adapter
- Ear-microphone
- Wearable Ear-microphone
- Retractable Ear-microphone
- Car Charger
- PC Data Link Cable

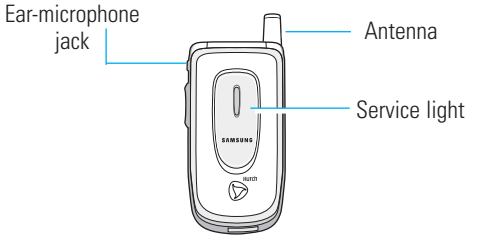
Your Phone

Phone's Parts

The following illustration shows the main elements of your phone.

With the phone open

With the phone closed



Keys

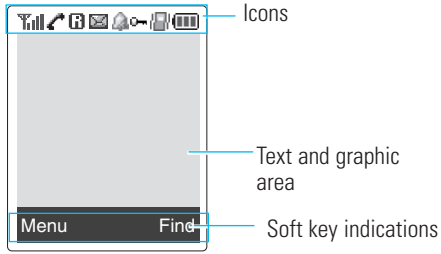
Key	Functions
(Soft keys)	Perform the functions indicated by the text above them, on the bottom line of the display.
	In the menu mode, scrolls through the menu options. In the standby mode, the key enters the **Games** menu. The key enters the **Messages**, and held, the key enters the **View month** screen.
	Enters the **Hutch Services** menu.

Keys *(continued...)*

Key	Functions *(continued...)*
	Makes or answers a call. In the standby mode, redials the last number dialed, received or missed when pressed twice or held down.
	Ends a call. Also switches the phone on and off when pressed and held. In the menu mode, cancels your input and returns to the standby mode.
C	Deletes characters from the display. In the menu mode, returns to the previous menu level.
0 ~n / 9 wxyz	Enters numbers, letters and some special characters.
*	In the standby mode, allows you to change the call ringer when pressed and held. In the text entry mode, changes the case of letters or pops up the SYMBOL1 mode window.
#	In the standby mode, quickly enters or exits the silent mode when pressed and held. In the text entry mode, changes the text input mode.

Display

The display has three areas; The first line for icons, the middle lines for text and graphic area, and the last line for the soft key indications.



Icons

Signal Strength : Shows the received signal strength. The greater the number of bars, the better the signal.

Service: Appears when a call is in progress.

No Service: Appears when you are outside a service area. When it displays, you cannot make or receive calls. Wait a little while for a better signal or move into an open area to regain service.

Roaming: Appears when you are out of your home area and have logged onto a different network; for example, when travelling in other countries.

Icons *(continued...)*

New Message: Indicates that there is a new message waiting to be checked.

Alarm Mode: Appears when you set an alarm to ring at a specified time.

Lock Mode: Appears when your phone is locked.

Restriction: Appears when you restrict your phone call or phonebook.

Vibration Mode: Appears when the ringer volume for calls is set to **Vibrate** or when your phone is in silent mode.

Ringer Silent : Appears when the ring volume for calls is set to **Silent**.

Battery Status: Shows the level of your battery. The more bars you see, the more power you have left.

Backlight

The backlight illuminates the display and keypad. When you press any key or open the folder, the backlight illuminates. It turns off if no key is pressed within a given period of time, depending on the **Backlight** option (**Menu 6-2-2**) set in the **Display** menu.

To specify the length of time the phone waits before the backlight turns off, set the **Backlight** menu option (**Menu 6-2-2**); see page 100 for further details.

Service Light

The service light on the folder flashes to indicate an incoming call, message or alarm and flashes for a few seconds when you turn the phone on or off. It lights up while the battery is charging with the travel charger; the color of the light turns green when the battery is fully charged.

Getting Started

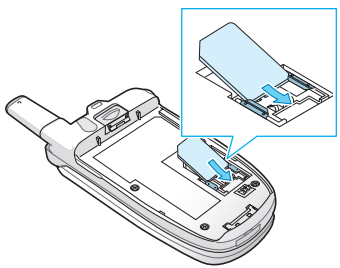
Using a R-UIM Card

The R-UIM(Removable-User Identification Module) card contains a chip with all the information required to operate your phone. Note the following:

- Keep all miniature R-UIM cards out of the reach of small children.
- The R-UIM card and its contacts can easily be damaged by scratching or bending, so be careful when handling, inserting or removing the card.

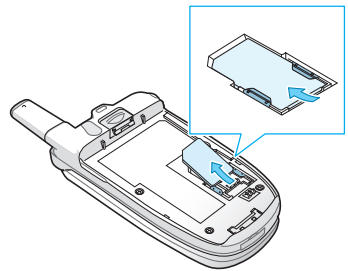
Installing the R-UIM card

1. If necessary, remove the battery by referring to page 18.
2. Slide the R-UIM card into the slot ensuring that the notched corner is at the top left and the gold contacts of the card face into the phone.



Removing the R-UIM Card

Slide the R-UIM card out of the slot.



Using a Battery

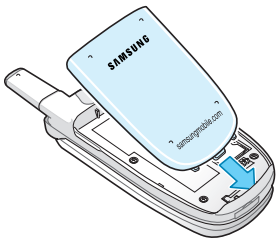
Your phone is powered by a rechargeable Li-ion battery. Use only approved batteries and chargers. Ask your local Samsung dealer for further details.

Note: You must fully charge the battery before using your phone for the first time. A discharged battery is fully recharged in approximately 150 minutes for a standard battery.

Installing the Battery

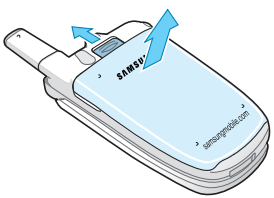
1. Insert the teeth at the bottom of the battery into the corresponding slots.
2. Push the battery against the back of the phone until it clicks into place.

   Make sure that the battery is properly installed before switching the phone on .



Removing the Battery

1. If necessary, switch off the phone by pressing and holding the key down until the power-off animation is displayed.
2. To remove the battery, push and hold the catch above the battery on the back of the phone and lift the battery away.



Charging the Battery

A travel adapter is provided for charging your batteries.

Using the Travel Adapter

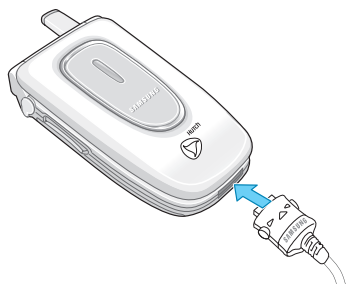
The travel adapter allows you to use the phone while the battery is charging, but this will cause the battery to charge more slowly.

1. With the battery in position on the phone, plug the connector of the travel adapter into the jack at the bottom of the phone.

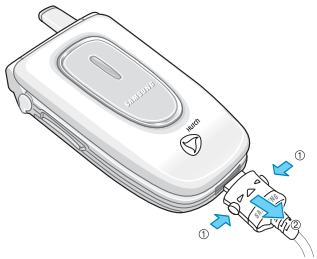
   Make sure that the arrow on the connector is facing toward the front of the phone.

2. Plug the adapter into a standard AC wall outlet.

   The battery strength icon on the display shows that the battery is charging.



3. When charging is finished, unplug the adapter from both the power outlet and the phone by pressing the tabs on both sides of the connector and pulling the connector out.



Note: Do not remove the battery from the phone without unplugging the adapter while it is charging. If you do this, the phone may be damaged.

Switching the Phone On or Off

1. Open the folder.

2. Press and hold for more than one second to switch the phone on.

3. If the phone asks for a Personal Identification Number (PIN), enter the PIN code supplied with the R-UIM card. For further details on the PIN code, see page 22.

   The service light flashes and an alert sounds. When the system locates services, you can see the idle screens on the display.

   If the phone is out of the service area, the No Service icon ( ) appears on the display. In this case, you cannot place and receive calls. You can try again later when service is available.

Note: You can change the display language via the **Language** menu option (**Menu 6-2-3**). See page 100.

4. When you wish to switch the phone off, press and hold for more than one seconds until the power-off animation is displayed.

WARNING!
Do not switch on the phone when mobile phone use is prohibited or when it may cause interference or danger.

Note: Do not touch the antenna on the phone unnecessarily when the phone is switched on. Contact with the antenna affects the call quality and may cause the phone to operate at a higher power level than otherwise needed.

PIN Code

The PIN code supplied with the R-UIM card helps you protect the R-UIM card against unauthorized use. When the phone asks you to enter the code, enter the appropriate code (displayed as asterisks for security). If you enter an incorrect PIN code three times in succession, your R-UIM card is blocked. To unblock the card, contact your service provider.

You can enable or disable the code using the **R-UIM Setup** menu option (**Menu 6-5-8**). For further information on the PIN code, see page 108.

Using the Soft Keys

Your phone offers a set of functions that allows you to customise your phone. These functions are arranged in menus and submenus, accessed using the two soft keys marked and . Each menu and submenu allows you to view and alter the settings of a particular function.

The roles of the soft keys vary according to the current context; the label on the bottom line of the display just above each key indicates its current role.

Example:

Press the left soft key to access Main Menu Mode.

Press the right soft key to access Phonebook Find.

Your Phone's Modes

Standby Mode

Standby mode is the most basic state of your phone. The phone goes into the standby mode soon after you turn it on, or whenever you briefly press . When your phone is in the standby mode, you will typically see the current date and time. If you enter a phone number, you can press to dial it, or press to save it in the internal phonebook.
Press at any time to return to the standby mode. Be careful; if you are on a call when you press , your phone disconnects the call and returns to the standby mode.

Talk Mode

You can place and answer calls only when your phone is turned on. During a call, the phone is in the talk mode. While you are in the talk mode, pressing gives you a list of options. See page 38 for details on the options.

Power Save Mode

Your phone comes with a Power Save feature that will automatically be activated if your phone is unable to find a signal after 15 minutes of searching. While this feature is active, the phone's battery charge is conserved. To return to the standby mode, press any key.

Lock Phone

When you lock your phone using the **Lock Phone** menu option **(Menu 6-5-1)**, you can receive messages and calls, but you cannot place a call until you unlock the phone.

To unlock the phone, press the **Unlock** soft key and enter the lock code.

For further details about locking and unlocking the phone, see page 104.

Silent Mode

The silent mode disables all sounds on the phone. This feature is best used in situations where the phone might disturb others, such as in a meeting, at a library and in a theater.

To enter the silent mode, press and hold until "Entering Silent Mode" and the Vibration icon ( ) appears.

To exit the silent mode and reactive th previous sound settings, press and hold until "Exit Silent Mode"appears. The vibration icon is no longer displayed.

Note: If you turn off the phone in vibrate mode, the vibrate mode is still activated when you turn on the phone.

Call Functions

Making a Call

To make a call:

1. In the standby mode, enter the area code and phone number.

   While entering a phone number, press the **Pause** soft key to insert a hard pause. For more information on pause dialing, see page 33.

2. Press . The phone places the call to the entered phone number.

Note: If you have set the time interval for automatic redialing in the **Auto Retry** menu option (**Menu 6-3**), the phone automatically retries to make the call when no one answers or the line is busy. See page 103 for further details.

Correcting the Number

To clear	Press
the last digit displayed	.
the whole display	and hold for more than one second.

Ending a Call

When you want to finish your call, press .

The call time, or the length of the call, displays along with the phone number of the called person. If the number is stored in your phonebook, the name displays. If there is no match, you can press and store the number in the phonebook. For further details about storing the number in the phonebook, see page 65.

Or, simply close the folder to end a call.

Emergency Dialing

You can place calls to standard emergency numbers, such as 112, or specified number in the Emergency Number list, even if your phone is locked or all outgoing calls are restricted. For further details on emergency numbers, refer to page 105.

Using the Recent Call Logs

The phone stores up to 60 of the calls dialed, received or missed chronologically. The last call is saved in the first position.

To recall any of these numbers:.

1. If there are any characters on the display, return to the standby mode by pressing .
2. Press . The list of recent calls displays.
   - : Outgoing calls
   - : Incoming calls
   - : Missed calls
3. Press or , or the volume keys on the left side of the phone to scan through the list until you find the required number.
4. Press to dial the displayed number.

Making a Call from the Phonebook

You can store the phone numbers called regularly in the R-UIM card and phone memory, which is called "Phonebook." You then simply recall the number to dial. For further details on the phonebook, refer to page 62.

Prepend Dialing

The Prepend option lets you add digits, such as area codes and network feature activation codes, to a phone number that is in your call logs before dialing it.

To prepend the phone numbers stored in the call logs:

1. Access a call log in the Recent Calls list or in the **Calls** menu (**Menu 1**) referring to page 56 .
2. When the phone number you want to dial displays, press to access the Menu pop-up list.
3. Press 3 to select the **Prepend** option.
4. Enter the area code or feature code.
5. Press to dial the number.

Speed Dialing

Once you have stored phone numbers in the phonebook, you can dial them easily with the few presses of the keys.

From the R-UIM Card Memory

You can dial the phone numbers stored in the R-UIM card memory. The capacity of the card memory may vary depending on the card.

Enter the memory location of the desired number and press and hold the final digit to dial.

One-Touch Dial: Memory locations 001 through 009 are special one-touch locations. You can dial the phone numbers stored in the Phonebook memory from 001 through 009 simply by pressing one key.

Press and hold the third digit of the memory location containing the number to be dialed.

For example: Location no. 009
Press 9 and hold.

The number (and name) stored is displayed, then dialed.

Two-Touch Dial: For memory locations of two digits.

Press the second digit briefly, then hold down the third digit of the memory cell.

For example: Location no. 023
Press 2 briefly and hold down 3.

The number (and name) stored is displayed, then dialed.

Three-Touch Dial: For memory locations of two digits.

Press the first and the second digit briefly, then hold down the third digit of the memory cell.

For example: Location no. 123
Press 1 and 2 briefly, then hold down 3.

The number (and name) stored is displayed, then dialed.

From the Phone's Memory

Press the digits of the phone memory location containing the number to be dialed, then press and hold *.

For example: Location no. 029
Press 2 and 9 briefly, then hold down *.

The number (and name) stored is displayed, then dialed.

Pause Dialing

When you call automated system, like banking services, you are often required to enter a password or account number. Instead of manually entering the numbers each time, you can store the numbers in your Phonebook, separated by special characters, which are called pauses.

Storing Pauses in a Phonebook Entry

To store a number in your Phonebook that contains pauses:

1. Enter the phone number you want to store, such as the bank's teleservice phone number.
2. Press the **Pause** soft key to insert a pause. A "P" displays, meaning that a hard pause will occur at that point in the dialing sequence.

   The "P"stops the dialing and waits for the teleservice to prompt you for a number. The number following the "P" is your account number, PIN, etc.
3. Enter the digits that need to follow the pause, such as your account number.
4. Repeat steps 2 and 3 to add more pauses and numbers, if necessary.
5. Store the number in your Phonebook as you normally would by pressing OK and following from Step 4 on page 66.

Pause Dialing from a Stored Phonebook Entry

1. Call the number from the Phonebook.
2. Wait for the appropriate prompt from the number you are calling.
3. When prompted, press to send the DTMF (Dual Tone Multi Frequency) number that follows your pause.

   "SENDING DTMF" flashes on the display and the transmitted tone sounds.

Manual Pause Dialing

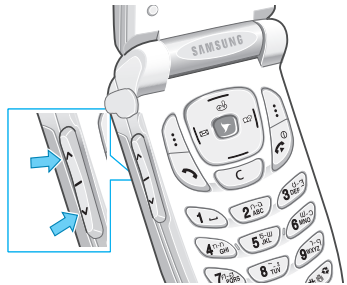
You can enter pauses manually during the dialing process.

1. Enter the phone number of the service you want to call, such as a bank's teleservice phone number.
2. Press the **Pause** soft key to insert a pause. The screen displays a "P" indicating a pause.
3. Enter the number to be sent after the pause by pressing the digit keys, and then press .
4. After connecting, wait for the prompt from teleservice. Press again after the prompt to send the additional number.

Adjusting the Volume During a Call

During a call, if you want to adjust the voice volume, use the volume keys on the left side of the phone.

Press to increase the volume level and to decrease the level. The graphic on the display shows all five levels; the more bars you see, the higher the level.



In the standby mode, you can also adjust the key tone volume using these keys.

Answering a Call

When somebody calls you, the phone alerts you by ringing and blinking the service light.

If the caller can be identified, the caller's phone number, or name if stored in your Phonebook, displays.

There are many ways to answer a call depending on your setting in the **Answer Mode** menu option (**Menu 6-4**);

Setting option	**To answer the call,**
By Send Key	press .
By Folder Open	open the folder or press .
By Any Key	open the folder or press any key except , , or the volume keys.

To end the call, close the folder or press .

Note: You can answer a call while using the Phonebook or menu features. The current operation stops.

Silencing an Incoming Call

You can silence the ringer when a call comes in by pressing one of the volume keys on the left side of the phone with folder open or pressing the right soft key.

Rejecting a Call

To reject an incoming call, press the left soft key or . Press and hold one of the volume keys on the left side of the phone with folder close.

Viewing Missed Calls

If you fail to answer a call for any reason, the phone indicates a missed call by displaying a text notification on the screen. Additionally, if caller information is available, a Missed entry is created, and the screen displays the phone number of the last missed call.

When the display informs you of the missed call, press to call the displayed number, or to clear the message and return to the standby mode.

To view the list of the missed calls, refer to "Missed" on page 57.

Options During a Call

Your phone provides a number of functions that you can use during a call. As many of these options are network services, you may not be able to use all of them at all times.

Press during a call to access the following options:

Mute/Quit: allows you to switch your phone's microphone off, so that the other party cannot hear you.

Example: You wish to say something to another person in the room but do not want the other party to hear you.

Calls : allows you to access the **Calls** menu. See page 56.

Phonebook: allows you to access the **Phonebook** menu. See page 62.

Silent/Quit: does not transmit the key tones. It allows you to press keys without hearing annoying key tones during a call.

Send My #: sends your phone number to the calling party or automated services.

DTMF Length: manipulates the audible DTMF (Dual-Tone Multi-Frequency) tones. You can choose between **normal** and **long**.

Call Waiting

You can answer an incoming call while you have a call in progress, if the **Call Waiting** menu (**Menu 1-7**) is enabled; see page 61.

When a waiting call is detected, the incoming call alert sounds, depending on your network, and a text notification displays.

To answer a waiting call:

1. To answer the call, press . The phone connects the calling party, and places the current party on hold.
2. Press again to switch between the two parties.
3. To end the call, press or close the folder. All of the calls are disconnected.

Call Forwarding

When the **Call Forward** menu (**Menu 1-6**) is enabled, your phone forwards incoming calls to another phone number, even while your phone turns off.

Activating Call Forwarding does not affect outgoing calls made from this phone. For further details for activating Call Forwarding. See page 60.

Three-Way Calling

This feature enables you to conduct conference calls with two separate parties at the same time. The phone records both calls in the Outgoing Calls Logs. You are billed airtime for each of the outgoing calls separately. Contact your service provider to activate Three-Way Calling.

To make a three-way call:

1. During a conversation, enter the phone number for the third party and press .
2. When the third party answers, press again to begin your three-way call.

During a three-way call, if one of the callers hangs up, you and the remaining caller will stay connected. If you initiated the call and you hang up first, all three parties are disconnected.

Entering Text

At many times when using your phone, you will need to enter text; for example, when storing a name in the Phonebook, writing a text message or scheduling events in your calendar. You can enter alphanumeric characters into your phone by using your phone's keypad.

Your phone has the following text input modes:

- **Matrix mode**: This mode allows you to enter Thai characters using the different keypad assignments. Each time you press the keys, a pop-up window appears on the display so that you can easily select the character you want to enter.
- **Thai T9/T9 Eng mode**: These mode allow you to enter words with only one key press per letter. Each key on a keypad has more than one letter - a single press 5 could be J,K or L. The T9 mode automatically compares your key presses to an internal linguistic database to determine the correct word. The T9 mode requires far fewer keystrokes than the traditional multi-tap method, Thai MT or English mode.
- **Thai MT/Abc mode**: These mode allows you to enter letters by pressing the key labeled with the letter you want to enter once, twice, or three times until if appears on the display.
- **Symbol1, Symbol2**: allows you to enter many different symbols and special characters.
- **Number**: allows you to enter numbers.

Changing the Text Input Mode

When you are in a field that allows characters entry, you should notice the text input mode indicator on the display.

Example: Entering a name for a Phonebook entry

Text input mode indicator

To change to another text input mode:

1. Press .

2. Scroll to a mode by pressing or .
3. To select the highlighted mode, press .

   If you want to exit the menu without changing to a new mode, press .

   The indicator of the mode appears on the display.

Note: You can quickly change the text input mode by pressing the # key. Press the key until the input mode indicator you want appears.

Using the Matrix Mode

In this input mode, a list showing the character assignment to the number keypad each time you press a key, so that you can easily select the character you want to enter.

1. Press a key on the number keypad. The pop-up window appears showing the characters assigned to the keypad.

   Pressing shows the punctuation mark list.

2. To display another character set, press or .
3. Press the number key corresponding to the character you want.

For example, to enter the letter "ส," press .
The following pop-up window appears.

ค	ง	ส
ห	ฟ	อ
ฮ		๗

Press to enter the letter "ส."

Other Usages

- You can quickly change to the symbol1 mode by pressing the * key. See page 49 for details.
- You can enter a space by pressing 1 .
- To move the cursor to the left or right through your text, press or .
- Press C one or more times to delete the letters one by one to the left. Press and hold C to clear the display.

Using the Thai T9 Mode

In this input mode, you can enter Thai characters using the T9 input mode, which allows you to enter words with one key press per letter.

1. Press the keys just once per letter you want to enter.

   The word you are typing appears on the display. It may change with each key press.

2. Type to the end of the word before editing or deleting any keystrokes.

   If the word that appears on the display is not the word that you want, press 0 one or more times to display alternative word choices for the keys you have typed. The phone displays the most commonly used choice first.

   For example, " สนาม " uses 7 , 5 , 9 and 6 . The phone displays the most commonly used choice first.

Other Usages

- You can quickly include a number between letters. Press and hold the number key you want to enter.
- You can quickly change to the symbol1 mode by pressing the * key. See page 49 for details.
- To move the cursor to the left or right through your text, press or .
- Press C one or more times to delete the letters one by one to the left. Press and hold C to clear the display.

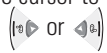
Using the Thai MT Mode

In this input mode, you need to press the keys labeled with the required Thai letter:
- once for the first letter
- twice for the second letter
and so on.

For example, press 7 three times to display the letter "ส " and 5 three times to display the letter "ป."

The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just wait for a few seconds for the cursor to move to the right automatically, and then enter the next letter.

Other Usages

- You can quickly include a number between letters. Press and hold the number key you want to enter.
- You can quickly change to the symbol1 mode by pressing the * key. See page 49 for details.
- To move the cursor to the left or right through your text, press  or .
- Press C one or more times to delete the letters one by one to the left. Press and hold C to clear the display.

Using the Abc Mode

In this input mode, you can enter English letters using:

- Alphabet mode, in which you need to press the key labeled with the letter you want to enter until it displays.
- English T9 mode, in which you can enter words with only one key press per letter.

To change the input method or case in English mode, press the * key one or more times to display the appropriate case indicator.

- **abc**: Alphabet mode in Small Caps
- **Abc**: Alphabet mode in Initial Lock
- **ABC**: Alphabet mode in Capital Lock
- **T9 Eng**: English T9 mode

Using the Alphabet mode

When typing in these modes, you need to press the keys labeled with the required English letter:

- once for the first letter
- twice for the second letter

and so on.
This method is called multi-tap typing.

For example, you press 2 three times to display the letter “C” and 5 two times to display the letter “K.”

The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just wait for a few seconds for the cursor to move to the right automatically, and then enter the next letter.

Other Usages

- You can quickly include a number between letters. Press and hold the number key you want to enter.
- You can quickly change to the symbol1 mode by pressing and holding the * key. See page 49 for details.
- To move the cursor to the left or right through your text, press or .
- Press C one or more times to delete the letters one by one to the left. Press and hold C to clear the display.

Using the T9 Eng Mode

To type a word, press keys corresponding to the letters you need. Remember the following as you are typing:

1. Press the keys just once per letter you want to enter.

   The word you are typing appears on the display. It may change with each key press.

2. Type to the end of the word before editing or deleting any keystrokes.

   If the word that appears on the display is not the word that you desire, press 0, or one or more times to display alternative word choices for the keys you have typed. The phone displays the most commonly used choice first.

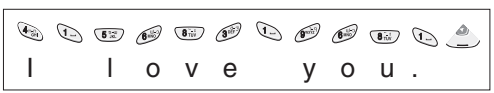
   For example, both "Of" and "Me" have the sequence of **6** and **3**. The phone displays the most commonly used choice first.

3. Put a space between words by pressing 1.

4. Continue entering the next word.

Other Usages

- You can insert only space, periods, comma, hyphens, bracket, colon, semi-colon and number 1 by pressing 1.



- You can include a number between letters. Press and hold the number key you want to enter.
- You can quickly change to the symbol mode by pressing and holding the * key. See page 49 for details.
- To move the cursor to the left or right through your text, press or .
- Press C one or more times to delete the letters one by one to the left. Press and hold C to clear the display.

Using the Symbol1, Symbol2 Mode

The symbol1, 2 mode enables you enter symbols.

Scroll to the symbol you want to enter by pressing or .

Press the * key to insert the symbol1 into the text. The phone automatically switches back to the text entry mode used just prior to selecting the symbol mode.

Using the Number Mode

The 123 mode enables you to enter numbers into your text. Press the keys corresponding to the digits you want to enter, and manually switch back to the text entry mode of your choice. See page 42 for changing the text input mode.

Using the Menus

The phone offers a range of functions that allows you to tailor the phone to your needs. These functions are arranged in menus and submenus.

The menus and submenus can be accessed by scrolling or using the shortcuts.

Accessing a Menu Function by Scrolling

1. In the standby mode, press the **Menu** soft key to access the main menu mode.
2. Scroll with and to reach the desired main menu, for example, **Settings**. Press the **Select** soft key to enter the menu.
3. Find the menu option you want, for example, **Display**, by scrolling with and . Press the **Select** soft key to enter the menu option.

   If the menu you have selected contains submenus, such as ภาษา , repeat this step.
4. Scroll with the navigation keys to select the setting of your choice.
5. Press the **Save** soft key to confirm the chosen setting.

Notes:
- To return to the previous menu level, press .
- You can exit the menu without changing the menu settings by pressing .

Accessing a Menu Function by Using its Shortcut

The menu items, such as menu, submenus and setting options, are numbered and can be accessed quickly by using their shortcut numbers.

Note: The numbers assigned to each menu function are indicated on the list on page 52.

1. In the standby mode, press the **Menu** soft key to access the menu mode.
2. Enter the first digit of the shortcut number. Repeat this for each digit of the shortcut number.

   Example: Changing the display language

   Press , , and .

   6 enters **Settings**, **2** selects **Display**, and **3** selects ภาษา .
3. Scroll with the navigation keys to select the setting of your choice.
4. Press the **Save** soft key to confirm the chosen setting.

List of Menu Functions

The list shows the menu structure available and indicates the number assigned to each option.

1: Calls

- 1-1: Outgoing
- 1-2: Incoming
- 1-3: Missed
- 1-4: Erase History
  - 1-4-1: Outgoing
  - 1-4-2: Incoming
  - 1-4-3: Missed
  - 1-4-4: All Calls
- 1-5: Air Time
  - 1-5-1: Last Call
  - 1-5-2: Total
  - 1-5-3: LifeTime
  - 1-5-4: Erase Total
- 1-6: Call Forward
  - 1-6-1: All Calls
  - 1-6-2: No Answer
  - 1-6-3: Busy
- 1-7: Call Waiting

2: Phonebook

- 2-1: Find
- 2-2: Add New Entry
- 2-3: Group Setting
- 2-4: My Phone #

3: Messages

- 3-1: New Message
- 3-2: Inbox
  - 3-2-1: R-UIM
  - 3-2-2: Phone
- 3-3: Outbox
  - 3-3-1: R-UIM
  - 3-3-2: Phone
- 3-4: Erase Msgs
  - 3-4-1: Inbox R-UIM
  - 3-4-2: Inbox Phone
  - 3-4-3: Outbox R-UIM
  - 3-4-4: Outbox Phone
  - 3-4-5: All Messages
- 3-5: Msg Setting
  - 3-5-1: Scroll Timer
  - 3-5-2: Msg. Reminder
  - 3-5-3: New Message
  - 3-5-4: Canned Msg

4: Planner

- 4-1: View Month
- 4-2: Jump To Date
- 4-3: Alarm
- 4-4: Calculator
- 4-5: Today
- 4-6: To Do List
- 4-7: Memo Pad
- 4-8: Countdown
- 4-9: World Time

5: Entertainment

- 5-1: Music Box
  - 5-1-1: Calls
  - 5-1-2: Messages
  - 5-1-3: Alarm/Scheduler
- 5-2: Image Box
  - 5-2-1: Power On/Off
  - 5-2-2: Wallpaper
- 5-3: Games
  - 5-3-1: Chicken Run
  - 5-3-2: Mobile Cop
- 5-4: Memory Status
  - 5-4-1: Total
  - 5-4-2: Music
  - 5-4-3: Image

6: Settings

- 6-1: Sounds
  - 6-1-1: Ringer Volume
    - 6-1-1-1: Calls
    - 6-1-1-2: Messages
    - 6-1-1-3: Alarm/Scheduler
  - 6-1-2: Key Tone
    - 6-1-2-1: Tone Volume
    - 6-1-2-2: Tone Type
  - 6-1-3: Alerts
    - 6-1-3-1: Minute Beep
    - 6-1-3-2: Service Alert
    - 6-1-3-3: Connect
    - 6-1-3-4: Disconnect
    - 6-1-3-5: Fade
    - 6-1-3-6: Roam Area
    - 6-1-3-7: Folder
  - 6-1-4: Voice Volume
  - 6-1-5: Power On/Off

6: Settings (continued)

- 6-2: Display
  - 6-2-1: Banner
  - 6-2-2: Backlight
  - 6-2-3: ภาษา
  - 6-2-4: Set Time
  - 6-2-5: Service LED
  - 6-2-6: Contrast
  - 6-2-7: Date
  - 6-2-8: Auto Hyphen
- 6-3: Auto Retry
- 6-4: Answer Mode
- 6-5: Security
  - 6-5-1: Lock Phone
  - 6-5-2: Change Lock
  - 6-5-3: Emergency #
  - 6-5-4: Voice Privacy
  - 6-5-5: Restriction
    - 6-5-5-1: Outgoing
    - 6-5-5-2: Incoming
    - 6-5-5-3: Phonebook
  - 6-5-6: Clear Memory
    - 6-5-6-1: R-UIM
    - 6-5-6-2: Phone
    - 6-5-6-3: All
  - 6-5-7: Reset Phone
  - 6-5-8: R-UIM Setup
    - 6-5-8-1: PIN Check
    - 6-5-8-2: Change PIN
    - 6-5-8-3: R-UIM Lock
- 6-6: Entry Method

Calls

You can use the **Calls** menu to:

- view and dial the last missed, outgoing or incoming numbers.
- erase the numbers in the call logs.
- view the duration of calls.
- set the phone to receive the second call or to forward incoming calls to the preset number.

Outgoing *(Menu 1-1)*

The phone stores up to 20 of the last calls you dialed. When you access this menu, a list of the outgoing calls displays.

For further details about scrolling through the list and accessing the call logs, see “Missed” on page 57.

Incoming *(Menu 1-2)*

This option lets you view up to 20 of the last calls you received if you are subscribed to the Caller Line Identification service. Contact your service provider for more information about this service. When you access this menu, the list of the incoming calls displays.

For further details about scrolling through the list and accessing the call logs, see “Missed” on page 57.

Missed *(Menu 1-3)*

If Caller Line Identification is available, your phone keeps a list of the last 20 incoming calls that you failed to answer. Contact your service provider for the availability.

1. Press or to find the desired number or name, if saved in the phonebook.

2. Press the **Select** soft key to select the highlighted number. The dialed number, or name if stored in the phonebook, is displayed.

3.

To	Press
place a call to the displayed number	.
use the menu options	the **Menu** soft key. For details about the options, see the following page.
view other calls	the navigation keys.
return to the standby mode	.

When you access the menu options, the following options are available:

Call: dials the selected number.

Save: allows you to save the number in the phonebook.

Prepend: allows you to add an area code or feature code to the number before calling the number.

Erase: allows you to erase the selected number.

Erase History *(Menu 1-4)*

In this menu, you can erase the entries stored in each of the three call logs; outgoing, incoming and missed calls. You can also erase all call logs entries at one time by selecting **All Calls**.

When a confirming message appears, select **Yes** to erase the logs. If you want to cancel the selection, select **No**.

Air Time *(Menu 1-5)*

Your phone records the amount of air time, or talk time, used. Using this option, you can view the number of the calls to or from your phone and the air time for all calls. You can easily erase the air time record at any time.

Note: This feature is not intended to be used for billing purposes.

The following options are available:

Last Call: shows the air time of the last call.

Total: shows the number of all calls made to or from your phone and the total duration of the calls since the air time counter was last set to zero by using the **Erase Total** option.

LifeTime: shows the number and total duration of all calls made to or from your phone since the phone was shipped from the factory.

Erase Total: erases the "Total" air time measurement and resets the air time counter.

Call Forward *(Menu 1-6)*

This network service allows incoming calls to be forwarded to another number.

Note: This option is only available when your network operator supports it. Contact your service provider to check the availability.

The following options are available:

All Calls: All of the calls are forwarded.

No Answer: Calls are forwarded if you do not answer the phone.

Busy: Calls are forwarded if the line is busy.

To set your forwarding options:

1. Select the type of call forwarding.
2. Select **Activate** and press the **Select** soft key.
3. Enter the area code and phone number to which your calls will be forwarded.
4. Press the **Send** soft key. The phone sends your setting to your network.

Once Call Forwarding is enabled, a notification text appears to inform you that your call will be diverted, each time a call is forwarded or you switch the phone on.

To deactivate the call forward setting:

1. Select the call forwarding option.
2. Select **Deactivate** and press the **Select** soft key.

Call Waiting *(Menu 1-7)*

The Call Waiting feature alerts you of incoming calls while you are on a call.

To enable the feature, select **Activate** by using the navigation keys and press the **Select** soft key.

When this feature is enabled, you can respond to an incoming call by pressing while you are on a call. This puts the first caller on hold and answers the second call. To switch to the first caller, press again.

Note: If you press or close the folder, all calls are disconnected.

To disable, select **Deactivate** and press the **Select** soft key.

Phonebook

You can store phone numbers and their corresponding names in the memories of your R-UIM card and the phone. The R-UIM card and phone memories, although physically separate, are used as if they were a single entity, called the phonebook.

Find *(Menu 2-1)*

This option allows you to find an entry using a person's name, entry number, group name or memory location.

Note: You can quickly access this menu by pressing the **Find** soft key in Standby Mode.

To change the finding method, press until the option you want to use displays; **By Name**, **By Entry**, **By Group** or **By Storage**.

By Name

When you select this method, the whole list of all of the phonebook entries appears in alphabetical order.

1. Press to move to the name input box.
2. Enter the first few letters of the name you want to find.

   If you want to find a Thai name, press the **Edit** soft key and enter the name and press the **OK** soft key. For more information on entering text, see page 41.

   Your phone highlights the first matching name.
3. If necessary, press or to scroll through the entries.
4. When an entry is highlighted:
   - Press to place a call to the entry's speed-dial number.
   - Press the **Menu** soft key to access the following options:
     - **Edit**: edits the entry's phone number, name, location number and other information.
     - **Erase**: erases the entry.
     - **Add New**: adds a number to the phonebook. You can create a new entry or add it to an existing entry. For more information on adding a number, refer to page 65.
   - Press the **OK** soft key to select the entry. Information about the entry displays. Move to each item by pressing or . Press the **Menu** soft key to use one of the following options:
     - **Call**: dials the number labeled as SpeedDial.
     - **Edit**: allows you to change the selected item.
     - **Copy**: is only available when you select a number item in phone memory entry or an item in R-UIM card.

This option allows you to copy the number in the other memory.
From R-UIM card to phone: Select a category icons for labeling the phone number and press the **Select** soft key.
From R-UIM card to phone: Press the **Save** soft key.

- **Erase**: erases the entry. If you select a number item, only the number is erased.

- Press to return to the previous screen.
- Press to exit this menu.

By Entry

When you select this method, the whole list of all of the phonebook entries appears in numeric order.

1. Enter the number you want to find.

   Your phone highlights the first matching name.

2. Follow Step 3 in **By Name** on page 63.

By Group

When you select this method, a list of the phonebook entries in a group appears.

1. Move to the group selection area by pressing .
2. Press or to scroll through the groups.

   Each time you select a group, a list of the associated entries displays.

3. Follow Step 3 in **By Name** on page 63.

By Storage

When you select this method, a list of the phonebook entries in the R-UIM card's memory appears.

1. Move to the memory selection area by pressing .
2. Press or to scroll through the memory, **R-UIM** and **Phone**.

   Each time you select a memory, a list of the associated entries displays.

3. Follow Step 3 in **By Name** on page 63.

Add New Entry *(Menu 2-2)*

This menu allows you to add a new entry to your phonebook. You can save a phone number or an e-mail address.

Adding a New Entry Using a Number

In the phone memory, a name can contain up to 5 numbers in a different category; Home, Office, Mobile, Pager, and Fax. You can save only one number with a name in the card memory.

1. After the **Add New Entry** menu option (**Menu 2-2**), select **Number** from the pop-up list and press the **Select** soft key.
2. Enter a number you want to save and press the **Save** soft key.
3. Press the **Save** soft key to accept **New Entry**.

4. Enter a name and press the **OK** soft key.

   You can enter up to 14 characters in English or 6 characters in Thai. For more information on how to enter characters, see page 41.

5. Your phone shows the detail information. Highlight the option you want to customize by pressing or .

   - **Name**: Press the **Edit** soft key to edit the name you entered in Step 4, if necessary. You can enter a name in this step if one has not already been entered.
   - **Storage**: The R-UIM card memory is automatically selected.

     To save the number in the phone memory, press the **Phone** soft key. The screen showing category icons appears. Select an icon using the navigation keys and press the **Select** soft key.
   - **Location**: The first available location displays. If you need to, enter the location number using the number keys or press or until the location number you want to use appears.

   The following options are available only when you select the phone memory:

   - **Home/Office/Mobile/Pager/Fax**: You can add numbers for each category. The phone number you have entered in Step 1 displays as a number in the storage you've chosen. You can also change the number.

   - **E-Mail1/E-Mail2**: Press the **Edit** soft key to enter an e-mail address. For more information on how to enter characters, see page 41.
   - **ETC:** Press the **Edit** soft key to add a memo about the person. For more information about how to enter characters, see page 41.
   - **SpeedDial**: Select the category icon of the number you want to use for speed dialing, by pressing or .
   - **Group**: Select one of the predefined relation groups, where the entry is included. Grouping the entries enables you to search for a number in the desired group. See page 64.
   - **Ringer Melody**: Press the **Edit** soft key to set a unique ringer melody for the entry.

6. Repeat Step 5 until you complete the contact information of the entry.

7. Press the **Save** soft key to save the entry.

   After storing, the phone displays the memory status of the phonebook, then automatically returns to the Phonebook menu screen.

Saving a Phone Number from the Standby Mode

1. In the standby mode, enter a number you want to save.

   OR

   Press to end the call. The call time and the phone number display.

2. To store the phone number, press the **Save** soft key.

3. Enter a name and press the **OK** soft key.

   For more information on entering text, see page 41.

4. Follow from Step 5 in "Adding a New Entry Using a Number" on page 66.

Adding a Number into an Existing Entry

You can store up to 5 numbers in a name entry saved in the phone memory by assigning them to the different types.

1. After the **Add New Entry** menu option (**Menu 2-2**), select **Number** from the pop-up list and press the **Select** soft key.

2. Enter a number you want to save and press the **Save** soft key .

3. Press or to select **Find** and press the **Save** soft key.

4. Find the name to which you want to add the number using the navigation keys; see page 62. Press **OK** softkey.

5. Follow from Step 5 in "Adding a New Entry Using a Number".

Adding a New Entry Using an E-mail Address

This option allows you to store an e-mail address as a Phonebook entry.

1. After the **Add New Entry** menu option (**Menu 2-2**), select **E-mail** from the pop-up list and press the **Select** soft key.

2. Enter the e-mail address and press the **OK** soft key.

   For more information on entering text, see page 41.

3. Follow from Step 3 in "Adding a New Entry Using a Number" on page 65.

Adding a New Entry Using a Memo

You can make a memo about a person as a Phonebook entry.

1. After accessing the **Add New Entry** menu option (**Menu 2-2**), select **ETC** from the pop-up list and press the **Select** soft key.

2. Enter a memo and press the **OK** soft key.

   For more information on entering text, see page 41.

3. Press the **Save** soft key to accept **New Entry**.

   Note: To add the memo to an existing entry, select **Find**. Find the name from the Phonebook list, and press the **OK** soft key.

4. Enter a name and press the **OK** soft key.

5. Follow from Step 5 in "Adding a New Entry Using a Number on page 66.

Group Setting *(Menu 2-3)*

This option allows you to change a relation group's name.

1. Press or to select the group you want to rename.

2. Press the **Select** soft key .

3. Press to erase the old group name.

4. Enter a name.
   For more information on entering text, see page 41.

5. Press the **OK** soft key to save the new name.

My Phone Number *(Menu 2-4)*

This option shows your phone number.

To change the phone number:

1. Press the **Edit** soft key when the number displays.

2. Enter a new phone number and press the **Save** soft key to save it.

Messages

In this menu, you can:
- write new SMS (Short Message Service) messages and check your incoming messages.

Your phone can receive voice mail messages, text messages, and web messages from your web server. Your phone can also send text messages if your system supplier provides this service.

Incoming messages are received even when your phone is in the lock mode. However, the screen will not display information about the message. To access the message, you need to unlock the phone.

If you receive an incoming message during a call conversation, your phone sounds an alert tone or vibrates, depending on your sound settings.

Note: You can quickly enter this menu by pressing in Standby Mode.

New Message *(Menu 3-1)*

You can create short text messages and send them to multiple mobile phones.

1. Enter the message contents and press the **OK** soft key.

   You can enter up to 70 characters in Thai or 160 characters in English. To change the input mode, press the **Mode** soft key and press the navigation keys to find the desired mode. For more information on entering text, see page 41.
   You can use up to 44 canned messages by pressing the **Mode** soft key and selecting **CannedMsg** Select a message from the list. For more information about canned msg, see page 79.

2. Select one of the following options, and press the **OK** soft key.

   - **Send & Save**: allows you to save a copy of the message and then send the message to the required destination. You can read the message in your Outbox.
   - **Send only**: allows you to send the message. The message will be deleted after sending.
   - **Save only**: allows you to save the message so that it can be sent later. You can read the message in your Outbox.

3. Enter a phone number.

   If you press the **Menu** soft key and select **Phone Book**, you can search your Phonebook for a number.

4. To send the message to multiple destinations, press and enter another number.

   Repeat this step to add more destinations. You can send the message to up to 10 destinations at one time.

5. When you finish entering the numbers, press the **OK** soft key to send or save the message.

6. Enter the callback number and press the **Send** or **Save** soft key.

   Your phone informs you of whether or not the message was successfully sent, and returns to the Message menu screen.

Inbox *(Menu 3-2)*

Your phone can store SMS messages and their corresponding Caller ID in your R-UIM card and phone's memories. If your memory is full, the screen displays a text notification and rejects additional incoming messages until you erase the obsolete ones

When the phone receives a text message, the New Text Message icon ( ) and a text notification with the call back number appear. Press the **Select** soft key to view the message immediately.
When you access the **R-UIM** menu (**Menu 3-2-1**) or **Phone** menu (**Menu 3-2-2**), a list of the received message displays. An icon displayed in the list means the message's status:

- : displays when you have read the message.
- : indicates that a duplicate message was sent.
- : means that the message is urgent.

Press or to scroll to the message you want to read and press the **View** soft key. The phone displays the contents. If necessary, press or to scan through the message.

While viewing a message, press the **Menu** soft key to use the following options:

Reply: allows you to send a reply message to the sender.

Forward: allows you to send the message to other people.

Call/Save: Press to make a call to the sender's phone number. Press the **Save** soft key to save it. Or press key assigned to call number to save the prepending number.

Erase: erases the message from your Inbox.

Outbox *(Menu 3-3)*

Your phone can store your outgoing SMS messages in your R-UIM card and phone's memories.

When you access the **R-UIM** menu (**Menu 3-3-1**) or **Phone** menu (**Menu 3-3-2**), you can see the message list. An icon displayed in the list means the message's status:

- : indicates that the message was successfully delivered.
- : indicates that the message was not sent.

Press or to scroll to the message you want to review and press the **View** soft key. The display shows the contents along with the destination number. If necessary, press or to scan through the message.

While viewing a message, press the **Menu** soft key to use the following options:

Resend: allows you to send the message to other people.

Call/Save: Press to make a call to the sender's phone number. Press the **Save** soft key to save it. Or press key assigned to call number to save the prepending number.

Erase: erases the message from your Outbox.

Erase Msgs *(Menu 3-4)*

Using this menu option, you can erase all of the messages in each message box; inbox R-UIM, inbox phone, outbox R-UIM and outbox phone.

You can also erase all of the messages at one time using the **All Messages** option.

Msg Setting *(Menu 3-5)*

Using this menu, you can set up various options for receiving or sending messages.

Scroll Timer *(Menu 3-5-1)*

If an incoming message is too long for the display, the phone scrolls the screen automatically. You can set the time interval in which the phone scrolls to the next screen, 1/3/5 seconds.

When this option is set to **Off**, you need to manually scroll to the next screen using or .

Msg. Reminder *(Menu 3-5-2)*

When a message is received, your phone alerts you by sounding the specified ringer. You can set how often this will happen.

Off: When you receive an incoming message, the phone alert you just once until you press any key or open and close the folder.

Once: The message alert sounds once when the message is received and sounds again after 2 minutes.

Every 2 min: When you receive an incoming message, the phone alert you every 2 minutes until you press any key or open and close the folder.

New Message *(Menu 3-5-3)*

You can set up the following options as default settings when creating a new message.

Priority: allows you to set the priority level of messages from **Normal** or **Urgent**.

Delivery Ack: allows you to activate or deactivate the delivery acknowledgement feature. When this is activated, the network informs you when your message is delivered to the recipient. Select **On** to turn the feature on or **Off** to turn it off.

Canned Msg *(Menu 3-5-4)*

Your phone has 44 preset messages to enable you to use them when writing a new message. You can change them, if necessary. You can also add up 44 messages.

1. Press or to highlight the message you want to change. Press the **Select** soft key. Or, press the title number of message that you want to select.

2. Clear the existing message using , if necessary, enter a new message.

3. Press the **OK** soft key to save the message.

Planner

The Scheduler feature enables you to:

- keep track of important dates and events.
- set the phone to ring at a specified time.
- use the phone as a calculator.
- create a list of things to do.
- create memo of things to remember.
- set and countdown to D-Day.
- check the current time in another part of the world.

Note: If you did not set the current date and time, you cannot use some features in the Scheduler. See page 101 for setting the time and date.

View Month *(Menu 4-1)*

This option allows you to view the current month, as well as the past or future month in the calendar format. You can be alerted by the Calendar function before an event commences. When you access this menu, the current day is automatically indicated.

Note: You can quickly enter this menu by pressing in Standby Mode.

Selecting a Day on the Calendar

- You can move to the next or the previous day by pressing or .
- You can move up or down the Calendar by one week by pressing or .
- To display the next or previous month, use the volume keys on the left side of the phone.

On the calendar, press the **Menu** soft key to use the following options:

View: allows you to view the scheduled events of the selected day.

Add new: allows you to add a new event on the selected day.

Scheduling an Event

You can schedule up to 9 events for one day and 20 events total.

1. Select a day from the calendar, referring to "Selecting a Day on the Calendar" on page 80, and press the **OK** soft key.
2. Enter your event contents and press the **OK** soft key.

   For more information on entering text, see page 41.
3. Enter the start time and date using the numeric keys and press .

   Note: You need to enter the time in 24-hour format.
4. Enter the end time and date using the numeric keys and press .
5. Select the time when an alarm will inform you of your event by pressing or . If you select **No alarm**, the phone will not alert you.
6. Press the **Save** soft key to save your event.

Viewing Your Schedule

Days with scheduled events are seen in a rectangle on the calendar when you access the **View Month** menu option (**Menu 4-1**). Select one of them and press the **View** soft key. The first event displays.

Scroll to the events you want to view by pressing or . If necessary, press to display more contents of the event.

While viewing an event, press the **Menu** soft key to use the following options:

Add new: adds a new event.

Edit: edits the event.

Erase: erases the event.

Erase All: erases all of scheduled events.

Jump To Date *(Menu 4-2)*

This feature allows you to specify a date so that you can easily access the day without scrolling through the calendar.

1. Enter the date using the numeric keys and press the **OK** soft key.
2. When the date you entered is highlighted on the calendar, press the **OK** soft key to access it.

For further details about scheduling an events, see page 81.

Alarm *(Menu 4-3)*

This option allows you to set the alarm to ring at a specific time.

To set the alarm:

1. Select the alarm frequency option by pressing or and press the **Save** soft key.
   - **Once**: The alarm rings only once and is then deactivated.
   - **Daily**: The alarm rings every day at the same time.
2. Enter the required time for the alarm to ring by using the numeric keys.

   Note: You must enter the time in 24-hour format.
3. Press the **Save** soft key to save the setting.

To stop the alarm when it rings, simply open and close the folder or press any key.

To deactivate the alarm, access the **Alarm** menu option, select **Off** from the alarm frequency options and press the **Save** soft key.

Calculator *(Menu 4-4)*

Using this feature, you can use the phone as a calculator. The calculator provides the basic arithmetic functions; addition, subtraction, multiplication and division. To perform a calculation:

1. Enter the first number using the numeric keys.

   Notes:
   - To erase any mistakes or clear the display, press C.
   - Use * to enter a decimal point and # to change the sign of a number to a negative (-).

2. Select the operation for your calculation by pressing the navigation keys according to the illustration on the display; **+** (add), **-** (subtract), **x** (multiply), **÷** (divide).

3. Enter the second number.

4. To get the result, press the **OK** soft key.

5. Repeat steps 1 to 4 as many times as required.

Today *(Menu 4-5)*

You can schedule up to 9 events for the current day, indicating each event's start and end time. Events scheduled for future dates automatically appear on your Today display for that particular day.

For further details about scheduling and viewing events, refer to "View Month" on page 80.

To Do List *(Menu 4-6)*

This feature allows you to enter up a list of tasks you need to do and assign both a priority and a deadline to them. You can store up to 20 tasks.

Creating a To-Do Item

1. Enter the task contents and press the **OK** soft key.

   For more information on entering text, see page 41.

2. Select High or Low priority using ▶ or ◀ and press OK.

3. Enter the time and date by which your task needs to be done, using the numeric keys.

   Note: You need to enter the time in 24-hour format.

4. Press the **Save** soft key to save the task.

Viewing a Task

When you access the **To Do List** menu option(**Menu 4-6**), the first task displays along with the deadline and the associated priority highlighted; ★1 for high priority or ★2 for low priority.

Scroll to the ask you want to view by pressing ▶ or ◀.

While viewing a task, press the **Menu** soft key to use the following options:

Add new: adds a new task.

Edit: edits the task.

Erase: erases the task.

Erase All: erases all of tasks.

Memo Pad *(Menu 4-7)*

This feature allows you to make memos of important things you need to remember.

Writing a New Memo

1. Enter what you need to remember.

   For further details on entering text, see page 41.

2. Press the **OK** soft key to save the memo.

Viewing a Memo

The list of your memos displays when you access the **Memo Pad** menu (**Menu 4-7**). To view details, press or to scroll to the memo you want to view from the list and press the **Select** soft key.

While viewing a memo, press the **Menu** soft key to use the following options:

Add new: adds a new memo.

Edit: edits the memo.

Erase: erases the memo.

Erase All: erases the memo.

Countdown *(Menu 4-8)*

This menu helps you know how much time it takes for you to do something or how many months, days, hours and minutes until a specific event occurs. You can create up to 20 Countdown timers using this feature.

Creating a Countdown Timer

1. Enter a name for your Countdown timer and press the **OK** soft key .

   For more information about how to enter characters, see page 41.

2. Enter the time and date from which you want to count down.

   Notes:
   - You need to enter the time in 24-hour format.
   - You can enter between 1981 and 2099 for the year.

3. Press the **Save** soft key to save the timer.

Viewing a Countdown Timer

The list of the countdown timers is displayed when you access the **Countdown** menu option (**Menu 4-8**).

Scroll to the timer you want to view by pressing or .

While viewing a timer, press the **Menu** soft key to use the following options:

Add New: creates a new timer.

Edit: edits the timer.

Erase: erases the timer.

Erase All : erases all of timers.

World Time *(Menu 4-9)*

You can use this menu option to find out what time it is in another part of the world.

Press the navigation keys to scroll to the desired time zone. The local date and time display.

To turn on or off the DST (Daylight Saving Time) setting:

1. After selecting the time zone you want to apply the DST, press the **DST** soft key.
2. Select **Yes** or **No** and press the **Select** soft key.

   The DST icon appears next to the time.

Entertainment

The Entertainment feature enables you to:
- coustomize various sound settings.
- set the images to be displayed in your display.
- enjoy games.
- check the status of your phone memory.

Note: The quality of the downloaded images and ringtones may depend on the content providers. Please contact your operator for more information.

Music Box *(Menu 5-1)*

You can customize various sound settings.

Calls *(Menu 5-1-1)*

This option allows you to set a unique ringer for incoming voice calls.

Following categories are available.

Basic Melody: allows you to select one of predefined melodies.
PlayRoom Melody: allows you to select one of melodies downloaded from PlayRoom.

Whenever you scroll the melodies in the category, it plays a melody in the category is highlighted, press the **Save** soft key to select it, and press the **Erase** soft key to erase it.

Messages *(Menu 5-1-2)*

This option allows you to have a distinctive ringer for incoming messages.

Alarm / Scheduler *(Menu 5-1-3)*

This option allows you to set an ringer for alerting your alarm or schedule.

Following categories are available.

Basic Melody: allows you to select one of predefined melodies.
PlayRoom Melody: allows you to select one of melodies downloaded from PlayRoom.

Image Box *(Menu 5-2)*

This option allows you to select the image to be displayed in the display.

Power On / Off *(Menu 5-2-1)*

This option allows you to select the image to be displayed and the melody to be sounded when you switch the phone on/off.

Wallpaper *(Menu 5-2-2)*

This opion allows you to select the wallpaper image. Following categories are available.

Basic Image: allows you to select one of predefined images.
PlayRoom Image: allows you to select one of images downloaded from PlayRoom

Games *(Menu 5-3)*

You can experience the fun of playing games on your phone.

Note: You can quickly enter this menu by pressing in Standby Mode.

Select one of the games and press any key to start it. When you start a game, the following menus are available.

NEW GAME: allows you to start a new game.
HIGH SCORE: shows you the high score table.
HELP/KEY INFO: shows you short guide for the game.
CONTINUE: allows you to continue the game. This menu is only available when you paused this game before.

While playing a game:

To	Press
pause/resume the game	.
exit the game	.

Chicken Run *(Menu 5-3-1)*

The goal of this game is to move eggs or chicks to the destination carefully.

When you select **NEW GAME** menu, the first screen displays two menus.
Select **START** menu to start a new game.
Select **OPTION** menu to change following options.

DIFFICULTY : allows you to change the level of the game among Easy, Normal, and Hard.

SOUND : allows you to turn the sound on or off while playing the sound.

VIBRATION : allows you to trun the vibration on or off while playing the game.

: allows you to move the previous screen.

Once the game starts, you need to control blue and red control items to move eggs or chicks carefully. To control the blue items, press or , and press or for the red ones. When you complete the given aims, the level goes up and the speed goes up.

Mobile Cop *(Menu 5-3-2)*

The goal of this game is to shoot the enemies.

When you select **NEW GAME** menu, the first screen displays three menus.
Select **START** menu to start a new game.
Select **OPTION** menu to change following options.
Select **HELP** menu to see the simple guide.

SOUND : allows you to turn the sound on or off while playing the sound.

VIBRATION : allows you to turn the vibration on or off while playing the game.

: allows you to move the previous screen.

Once the game starts, enemies in red appear at target position. Check the position and press appropriate number key to shoot the enemy.

1	2	3
4	5	6

Sometimes enemies hold hostages, If you shoot the hostage, you will lose the bonus points.
After running out of the bullets, press , or to reload them.

Whenever you kill all the enemies for one stage, you can go to the next stage.

Memory Status *(Menu 5-4)*

Total *(Menu 5-4-1)*

You can see the total, used and free space.

Music *(Menu 5-4-2)*

You can see the list of melodies downloaded from PlayRoom.

Image *(Menu 5-4-3)*

You can see the list of images downloaded from PlayRoom.

Settings

Many different features of your phone can be customized to suit your preferences.

Sounds *(Menu 6-1)*

You can use this menu to customize various sound settings, such as the:

- ringer volume.
- key tone and voice volume.
- alert sounds.
- tone which sounds when the phone is switched on or off.

Ringer Volume *(Menu 6-1-1)*

This menu option allows you to adjust the ringer volume for the following items:

Calls: allows you to adjust the ringer volume for the incoming calls.

Messages: allows you to adjust the ringer volume for incoming messages.

Alarm/Scheduler: allows you to adjust the ringer volume for an alarm.

Press the navigation keys to adjust the volume level or select the type. The following options are available:.

Silent: The phone does not sound a ring.

1 Beep: The phone sounds a beep.

Vibrate: The phone switches to the vibration mode. An incoming call vibrates the phone.

Level 1 ~ **5**: You can adjust the volume level. The graphic shows the volume level; the more bars, the louder the volume.

Key Tone *(Menu 6-1-2)*

This option allows you to set up the tone that the keypad generates each time you press a key.

The following setting options are available:

Tone Volume: allows you to adjust the volume. The graphic shows the volume level; the more bars, the louder the volume. To turn the key tone off, select **Silent**.

Note: You can adjust the volume using the volume keys on the left side of the phone.

Tone Type: allows you to select the type of key tone. **Raindrop Sound**, **Drum Sound**, **Piano**, **Woman's Voice**, **Girl's Voice** and **Beep** are available.

Alerts *(Menu 6-1-3)*

Your phone gives audible alerts (beeps) at a specified time to inform you that certain things have happened. The alerts only occur in your earpiece so the other party does not hear them.

The available alerts are:

Minute Beep: When this menu option is set to **On**, the phone sounds an alert 10 seconds before each elapsed minute to remind you of the length of the current call.

Service Alert: When this menu option is set to **On**, the phone sounds an alert when you exit your service area or when you return to the service area.

Connect: When this menu option is set to **On**, the phone sounds a connect tone when your call is connected to the system.

Disconnect: When this menu option is set to **On**, the phone sounds a disconnect tone when a call is disconnected.

Fade: When this menu option is set to **On**, the phone sounds an alert when a dropped call occurs during conversation in response to a signal fade.

Roam Area: With this menu option set to **On**, the phone sounds an alert when your phone starts roaming.

Folder: With this option set to **On**, the phone sounds an alert when you open or close the phone's folder.

Voice Volume *(Menu 6-1-4)*

This option enables you to adjust the voice volume of the earpiece.

Press the navigation keys to adjust the volume. You can also use the volume keys on the left side of the phone. The graphic shows the volume level; the more bars you see, the louder the volume.

Note: During a call, you can adjust the volume using the volume keys on the left side of the phone.

Power On / Off *(Menu 6-1-5)*

This option allows you to select one of the sounds that the phone generates when it is switched on and off.

Use navigation keys and press **Select** softkey to turn the sound **On** or **Off** to turn it on or off.

Display *(Menu 6-2)*

The Display feature enables you to:

- set a banner message.
- set the length of time for the backlight.
- change the display language.
- set the current date and time.
- turn the service light on or off.
- adjust the screen contrast of LCD screens.
- displays current date and time on the idle screen.
- automatically hyphenates numbers entered.

Banner *(Menu 6-2-1)*

This option allows you to set a banner message to be displayed at the bottom of the display in the standby mode.

To change the banner:

1. If necessary, press C to clear the old message.
2. Enter a new banner message using the alphanumeric keys.
   For more information entering text, see page 41.
3. When you finish entering the message, press the **OK** soft key to save it.

Backlight *(Menu 6-2-2)*

You have several options for setting how the LCD backlight operates.

When the folder is closed, the backlight remains off, thus conserving battery power. When the folder is open, the length of time that the backlight remains on can be set as explained below. Remember that backlight use drains your battery faster.

The following options are available:

7/15/30 Seconds: The backlight remains on for 7/15/30 seconds after the last key is pressed or you open the folder. Then it starts dimming and turns off after 53/45/30 seconds.

ภาษา (Language) *(Menu 6-2-3)*

You can change the language of the menu display. Select either ภาษาไทย or **English** and press the **Save** soft key.

Set Time *(Menu 6-2-4)*

This menu option allows you to set the current date and time. The following options are available:

Main Clock *(Menu 6-2-4-1)*

The current time, if set, displays. In a service area, you don't need to change the time setting.

1. Enter the current time and date.

   The month, day, hour and minute must each be entered using 2 digits and the year requires all four digits. You need to enter the hour in 24-hour format.

2. When you finish entering the time and date, press the **Save** soft key to save it.

Dual Clock *(Menu 6-2-4-2)*

This option allows you to set the dual clock for the **Wallpaper** display (**Menu 5-2-2**).

To change the option, move to the first level until it highlights using or . Press or to scroll through the following options:

Location: Select **Left** or **Right** by pressing or and press or to select the location.

DST : Select **Left** or **Right** by pressing or and press or to select **On** or **Off**.

Service LED *(Menu 6-2-5)*

You can turn on or off the service light on the folder.

Contrast *(Menu 6-2-6)*

This menu allows you to adjust the brightness of the **LCD** screens.

1. Press down or left navigation key to make the screen darker, and up or right navigation key to make the screen brighter.
   You can also use the volume keys to adjust the brightness.

   Each time you press the key, you will see the selected status of the LCD.
2. Press the **Select** soft key to save your setting.

Date *(Menu 6-2-7)*

This menu allows you to set whether or not the current date and time displays on the idle screen.

Auto Hyphen *(Menu 6-2-8)*

When this option is set to **On**, your phone automatically hyphenates numbers when you enter a phone number, for example, 0-0000-000000. Digits following a pause are not hyphenated.

Auto Retry *(Menu 6-3)*

When this menu is activated, your phone automatically redials the call up to 10 times when a connection fails.

Select **On** to activate this feature, select **Off** to deactivate the feature.

Answer Mode *(Menu 6-4)*

This menu option allows you to select how to answer an incoming call. It is preset to **By Send Key**.

The following options are available:

By Send Key: The phone answers only when you press .

By Folder Open: The phone answers when you open the folder. When the folder is already open, press .

By Any Key: When folder is opened, you can press any key except for , , or the volume keys on the side of the phone. When the folder is closed, you can answer the call by opening the folder.

Security *(Menu 6-5)*

Your phone provides you with various security options, including a user-programmable lock code and emergency number features.

To access the **Security** menu, you must enter the 4-digit lock code. It is preset to "0000" at the factory.

Lock Phone *(Menu 6-5-1)*

In the lock mode, you cannot dial numbers, except for making an emergency call, or accessing menu options. The phone can receive incoming calls and messages, even though the phone is in the lock mode.

The following options are available:

Unlocked: the phone remains unlocked.

On power up: the phone is automatically locked the next time you turn the phone on.

Now: the phone is immediately locked.

To place an emergency call in the lock mode, enter a programmed number and then press . The phone recognizes standard emergency numbers, such as 191 or 112 in the **Emergency #** menu option (**Menu 6-5-3**); see page 105.

To unlock the phone, press the **Unlock** soft key and enter the 4-digit lock code. The phone is immediately unlocked.

Change Lock *(Menu 6-5-2)*

This feature allows you to change your current lock code to a new one. The lock code is preset to "0000" at the factory.

Enter a new, four-digit lock code and enter the code once again at the prompt.

Note: Your phone does not allow viewing of the lock code for security reasons, so be sure to write the lock code down or memorize it if you have changed

Emergency # *(Menu 6-5-3)*

Your phone provides the option of storing two emergency numbers. All of these numbers can be manually dialed at any time, even if your phone is locked or all outgoing calls are restricted.

IMPORTANT NOTICE!

Emergency calling may not be available on all wireless networks at all times, due to the various transmission methods, network parameters and user settings used to complete a call from your wireless phone. A connection cannot always be guaranteed.

DO NOT depend on this phone as a primary method of dialing 112 or for any other essential or emergency communications.

Remember to always turn your phone on and check for the adequate signal strength before placing a call.

To store an emergency number:

1. Press or to select the desired location and press the **Select** soft key.
2. Press to clear the existing number.
3. Enter the desired number and press the **Save** soft key to save the number.

Note: 191 and 112 will remain as emergency numbers, even if you change them in the emergency number list.

To make an emergency call in the lock mode, simply enter one of the programmed emergency numbers and press .

Voice Privacy *(Menu 6-5-4)*

Used only in digital networks, Voice Privacy encrypts the voice channel so that people cannot eavesdrop on your conversation.

The following options are available:

Standard: The phone uses a standard line for calls.

Enhanced: The phone makes and receives calls on an encrypted high security line.

Note: This feature may not be available in all areas. Contact your service provider for details and availability.

Restriction *(Menu 6-5-5)*

This feature allows you to restrict the use of your phone.

The following options are available:

Outgoing: restricts outgoing calls from your phone except emergency calls by standard emergency numbers, such as 191 and 112 in **Emergency #** (**Menu 6-5-3**). Once you restricted the phone, storing a number is also unavailable.

Incoming: restricts incoming calls.

Phonebook: restricts to access your Phonebook. You cannot also add a new entry.

When a confirming message displays, select **On** to turn it on or **Off** turn it off.

Clear Memory *(Menu 6-5-6)*

This menu allows you to erase your phonebook entries and SMS messages in the R-UIM card or phone memory. You can also erase all of the entries at one time.

The following options are available:

R-UIM: clears all of the entries stored in the card.

Phone: clears all of the entries stored in the phone.

All: clears all phonebook entries and SMS messages .

When a confirming message displays, select **Yes** to clear the memory or **No** to cancel your selection.

Reset Phone *(Menu 6-5-7)*

Resetting the phone restores the default settings of all of user-selectable options.

When a confirming message displays, select **Yes** and press the **Select** soft key to confirm. The phone reboots, turning itself off and then back on, and returns to the standby mode.

Note: Phonebook, SMS, LCD contrast, R-UIM memory, and phone memory cannot be reset.

Select **No** or press C to cancel your selection.

R-UIM Setup *(Menu 6-5-8)*

In this menu, you can use the options for the R-UIM card.

PIN Check *(Menu 6-5-8-1)*

When this feature is enabled, you must enter the PIN assigned to your R-UIM card each time you switch the phone on. Consequently, any person who does not have your PIN cannot use your phone without your approval.

Note: Before disabling the PIN Check feature, you must enter your PIN.

Change PIN *(Menu 6-5-8-2)*

This feature allows you to change the PIN of the R-UIM card to a new one, provided that the PIN Check feature (**Menu 6-5-8-1**) is enabled. You must enter the current PIN before you can specify a new one. Enter a new PIN.

R-UIM Lock *(Menu 6-5-8-3)*

When this feature is enable, your phone only works with the current R-UIM card.

Once you have entered the lock code, you are asked to confirm it by entering it again.

To unlock the R-UIM card, you must enter the R-UIM lock code.

Entry Method *(Menu 6-6)*

This option allows you to select the default text input mode.

Select one of four input modes; **Matrix**, **Thai T9**, **Thai MT** and **Abc**.

Health and Safety Information

Exposure to Radio Frequency (RF) Signals

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on the safety standards that were developed by independent scientific organizations through periodic and through evaluation of scientific studies.

The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless phones employs a unit of measurement known as Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6W/kg*.

* In the U.S. and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output of the phone.
Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID printed in the label on the phone.
FCC certification information for this model phone is attached separation paper.

For Body Operation

For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung-supplied or approved accessory designated for this product or when used with and accessory that contains no metal and that positions the handset a minimum from the body. The minimum distance for this model phone is written in the FCC certification information from the body.
None compliance with the above conditions may violate FCC RF exposure guidelines.

For more Information concerning exposure to radio frequency signals, see the following websites:

Federal Communications Commission (FCC)
http://www.fcc.gov/oet/rfsafety

Cellular Telecommunications Industry Association (CTIA): http://www.wow-com.com

U.S.Food and Drug Administration (FDA)
http://www.fda.gov/cdrh/consumer

World Health Organization (WHO)
http://www.who.int/peh-emf/en

Precautions When Using Batteries

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.

- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and – terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car,driving is your first responsibility. When using your wireless phone behind the wheel of a car,make sure that you are following the special regulations in a given area or country.

Operating Environment

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder).

Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Consult the manufacturer to discuss alternatives.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on
- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize potential interference

If you have any reason to suspect that interference is taking place, switch your phone off immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may wish to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle.
You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Switch your phone off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:
1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location. Emergency numbers vary by location.
3. Press the key.

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Other Important Safety Information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your phone off before boarding an aircraft. The use of wireless phones in aircraft may be dangerous to the operation of the aircraft, and is illegal.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children's.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.

- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Glossary

Air time - Actual time spent talking on the wireless phone. Most carriers bill customers based on how many minutes of airtime they use each month.

Antenna - A device for transmitting or receiving signals. The size and shape of antennas is determined, in part, by the frequency of the signal they receive. Wireless phones and the base station must have antennas.

Base Station - The fixed radio transmitter/receiver that maintains communications with mobile radio telephones within a given area. (Typically called a cell or cell site)

CDMA - (Code Division Multiple Access) A spread-spectrum approach to digital transmission. With CDMA, each conversion is digitized and then tagged with a code. The mobile phone deciphers only a particular code to pick the right conversation off the air. The transmitted signal is just above noise level across the available bandwidth.

Channel - Communications signals transmit along paths called channels.

Codec Coder/Decorder - Compression & decompression.

Deactivation - The process of rendering a wireless phone inactive.

DTMF - (Dual-Tone Multi- Frequency) You send DTMF signals when you enter numbers by pressing the digit keys.

EVRC - (Enhanced Variable Rate Codec) EVRC is a new global standard for compressing and decompressing voice signals. EVRC uses a lower bit rate (the number of bits sent per second) than existing CDMA vocoders, while providing significant improvements in voice quality. This technology enables your phone to provide superb voice quality while benefiting from the ability to process more cellular voice calls using less bandwidth than the voice codecs in CDMA networks today.

Frequency - A measure based on time, as one or more waves per second, in an electrical or light wave information signal. A signal's frequency is stated in cycles-per-second or Hertz (Hz).

LCD - (Liquid Crystal Display) Commonly used to refer to the screen display on the wireless phone.

Prepend - The addition of a prefix, such as an area code, to a phone number.

RF - Radio Frequency

Roaming - The ability to use a wireless phone to make and receive calls in places outside of the home service area.

Service Charge - The amount paid each month to receive wireless service.

Standby Time - The amount of time a fully charged wireless portable or transportable phone can be on and idle without being in use. (See Talk Time)

Talk Time - The length of time a person can talk on a portable or transportable wireless phone without recharging the battery.

Vocoder - Voice Coder. A device used to convert speech into digital signals.

Wireless - Radio-based Systems that allow transmission of telephone or data signals through the air without a physical connection, such as a metal wire (copper) or fiber optic cable.

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5,101,501 5,103,459 5,107,225
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